Hydrology Investigation

Calibration Data Work Sheet

School name: _____

Student group: _____

Date: _____

Dissolved Oxygen:

Temperature of distilled water: _____C; Elevation of your site: _____meters

Dissolved Oxygen for the shaken distilled water:

Observer 1: _____ mg/L Observer 2: _____ mg/L Observer 3: _____ mg/L Average: _____mg/L

Solubility of oxygen in water for your temperature at sea level from Table 3-1.		Calibration value for your elevation from Table 3-2.		Expected value for DO in your distilled water:
_____mg/L	x	_____	=	_____mg/L

Kit manufacturer and model:_____

Salinity

Salinity of Standard: Observer 1: _____ ppt Observer 2: _____ ppt Observer 3: _____ ppt

Average Salinity: _____ ppt

Kit manufacturer and model:_____

Alkalinity

For Baking Soda Standard

For kits that read alkalinity directly

Observer 1: ____ mg/L as $CaCO_3$ Observer 2: ____ mg/L as $CaCO_3$ Observer 3: ____ mg/L as $CaCO_3$

Average: _____ mg/L as $CaCO_3$

Hach kits or other kits in which drops are counted:

	Observer 1	Observer 2	Observer 3	Average
Number of drops	_____drops	_____ drops	_____drops	_____ drops
Conversion constant for your kit and protocol:	x_____	x_____	x_____	x_____
Total Alkalinity (mg/L as $CaCO_3$)	=_____mg/L	=_____ mg/L	=_____mg/L	=_____ mg/L

Kit manufacturer and model:_____

Nitrate

Observer 1: ____ mg/L NO_3^- - N Observer 2: ____ mg/L NO_3^- - N Observer 3: ____ mg/L NO_3^- - N

Average: ____ mg/L NO_3^- - N

Kit manufacturer and model:_____